

(FILE USPAT ENTERED AT 15:23:50 ON 18 MAR 1997)

L1 1904 S 359/629-641/CCLST OR 345/7-9/CCLST
L2 618 S (CRITICAL?(2W)ANGLE#) AND
(INCIDENT?(2W)ANGLE#)
L3 18 S L1 AND L2

=> sel 1-18 ccls
E1 THROUGH E52 ASSIGNED

=> d sel e1-e10

E#	FILE	FREQUENCY	TERM
E1	USPAT	4	359/630/CCLS
E2	USPAT	3	345/7/CCLS
E3	USPAT	3	359/629/CCLS
E4	USPAT	3	359/634/CCLS
E5	USPAT	3	359/638/CCLS
E6	USPAT	3	359/640/CCLS
E7	USPAT	3	359/833/CCLS
E8	USPAT	2	348/338/CCLS
E9	USPAT	2	353/31/CCLS
E10	USPAT	2	353/81/CCLS

=> d 1-18

1. 5,552,922, Sep. 3, 1996, Optical system for projection display; Simon Magarill, 359/224; 353/81; 359/225, 618, **640**, 833, 834, 837, 850, 865 [IMAGE AVAILABLE]
2. 5,548,443, Aug. 20, 1996, Light separator for testing DMD performance; Austin L. Huang, **359/638**, 831 [IMAGE AVAILABLE]
3. 5,404,234, Apr. 4, 1995, Projector using a hologram; Naosato Taniguchi, et al., 359/15; 348/41, 744; 353/31; **359/634** [IMAGE AVAILABLE]
4. 5,172,100, Dec. 15, 1992, Automotive display apparatus; Tadashi Iino, **345/7**, **359/630**, **640**, 837 [IMAGE AVAILABLE]
5. 5,150,259, Sep. 22, 1992, Optical imaging device; Noriji Oishi, 359/619, 623, **639**, 710 [IMAGE AVAILABLE]
6. 4,969,730, Nov. 13, 1990, Image projection arrangement; Andrianus H. J. van den Brandt, 353/31, 30, 34, 37; **359/633** [IMAGE AVAILABLE]
7. 4,941,723, Jul. 17, 1990, Rod shaped linear light diffusion apparatus; Shigeru Sasada, 359/599, **641**, 385/147 [IMAGE AVAILABLE]
8. 4,913,529, Apr. 3, 1990, Illumination system for an LCD display system; Jill F. Goldenberg, et al., 349/9; 348/742, 757, 761; 349/62; 353/81; 359/495, 496, **629** [IMAGE AVAILABLE]
9. 4,913,528, Apr. 3, 1990, Optical prism, and projection television set using same; Shinichi Hasegawa, **359/638**; 348/338, 780; 353/33; 359/831, 832 [IMAGE AVAILABLE]
10. 4,873,569, Oct. 10, 1989, Image reader having spectroscope for color separation; Makoto Hirosawa, 358/511; 348/338; **359/634** [IMAGE AVAILABLE]
11. 4,832,449, May 23, 1989, Optical projectors for head-up displays; Anthony C. Mundy, et al., **359/630**; **345/9**; **359/634**, 833 [IMAGE AVAILABLE]
12. 4,813,763, Mar. 21, 1989, Light beam fluctuation compensating device and method; Kenji Saito, et al., **359/638**; 356/432; 359/238 [IMAGE AVAILABLE]
13. 4,611,877, Sep. 16, 1986, Optical projectors for head up displays; Stafford M. Ellis, **345/7**, **359/630** [IMAGE AVAILABLE]
14. 4,594,508, Jun. 10, 1986, Radiation scanning systems; Herbert M. Runciman, 250/334, 338.1; 359/206, **640** [IMAGE AVAILABLE]
15. 4,309,070, Jan. 5, 1982, Display apparatus; Simon M. St. Leger Searle, **345/7**, 359/15, **630** [IMAGE AVAILABLE]
16. 4,302,075, Nov. 24, 1981, Device for splitting the light beam incident; Kazuya Matsumoto, et al., 359/572, **629** [IMAGE AVAILABLE]
17. 4,093,354, Jun. 6, 1978, Method and apparatus for splitting a beam of energy; James C. Administrator of the National Aeronautics and Space Administration, with respect to an invention of Fletcher, et al., **359/633**, 834 [IMAGE AVAILABLE]
18. 3,758,197, Sep. 11, 1973, LIGHT COLLECTING AND TRANSMITTING APPARATUS; Daniel M. Klang, et al., 359/833; 136/246; 242/148; **359/629** [IMAGE AVAILABLE]

L1 27 S HEADUP(W)DISPLAY
L2 535 S HEAD-UP DISPLAY
L3 255 S HEAD MOUNT? DISPLAY
L4 229 S HELMET(2W)DISPLAY
L5 931 S L1 OR L2 OR L3 OR L4
L6 3836 S CRITICAL(2W)ANGLE#
L7 27 S L5 AND L6
L8 3423 S AZIMUTH(2W)ANGLE#
L9 0 S L7 AND L8
L10 39 S L6 AND L8
L11 32907 S IMAGE#(2A)DISPLAY?
L12 221 S L11 AND L6
L13 1 S L12 AND L8
L14 4 S L6(P)L8
L15 66 S L7 OR L10 OR L13 OR L14

> sel 1-66 ccls

E1 THROUGH E214 ASSIGNED

> d sel e1-e15

E#	FILE	FREQUENCY TERM
E1	USPAT	7 345/7/CCLS
E2	USPAT	6 359/15/CCLS
E3	USPAT	6 359/630/CCLS
E4	USPAT	3 356/350/CCLS
E5	USPAT	3 359/833/CCLS
E6	USPAT	3 359/837/CCLS
E7	USPAT	3 359/857/CCLS
E8	USPAT	2 126/687/CCLS
E9	USPAT	2 126/698/CCLS
E10	USPAT	2 126/909/CCLS
E11	USPAT	2 136/259/CCLS
E12	USPAT	2 340/980/CCLS
E13	USPAT	2 342/157/CCLS
E14	USPAT	2 343/853/CCLS
E15	USPAT	2 349/62/CCLS

> d 1-66

1. 5,767,399, Jun. 16, 1998, Method of assaying compressive strength of rock; Lee Morgan Smith, et al., 73/152.11 [IMAGE AVAILABLE]

2. 5,751,576, May 12, 1998, Animated map display method for computer-controlled agricultural product application equipment; Robert J. Monson, 364/188; 239/161; 364/138 [IMAGE AVAILABLE]

3. 5,744,813, Apr. 28, 1998, Method and device for controlling beams of neutral and charged particles; Muradin Abubekirovich Kumakhanov, 250/505.1; 378/149 [IMAGE AVAILABLE]

4. 5,739,527, Apr. 14, 1998, Near-field optical microscope for angle resolved measurements; Bert Hecht, et al., 250/234, 216 [IMAGE AVAILABLE]

5. 5,726,659, Mar. 10, 1998, Multipath calibration in GPS pseudorange measurements; Changdon Kee, et al., 342/352, 357, 378 [IMAGE AVAILABLE]

6. 5,724,463, Mar. 3, 1998, Projection display with electrically controlled waveguide-routing; David A. G. Deacon, et al., 385/27, 9, 10, 18, 47, 901 [IMAGE AVAILABLE]

7. 5,721,679, Feb. 24, 1998, Heads-up display apparatus for computer-controlled agricultural product application equipment; Robert J. Monson, 345/7; 701/50, 208 [IMAGE AVAILABLE]

8. 5,686,719, Nov. 11, 1997, Method for finding viewing intervals for the control of instruments, star trackers, and sensors on earth and solar system object orbiting platforms; David Elkin, 250/203.1; 244/3.16; 250/203.6 [IMAGE AVAILABLE]

9. 5,682,255, Oct. 28, 1997, Holographic optical devices for the transmission of optical signals of a plurality of channels; Asher Albert Friesem, et al., 359/15, 19, 24, 629, 634, 385/24, 37 [IMAGE AVAILABLE]

10. 5,675,447, Oct. 7, 1997, Method and arrangement for initiating search for start of data in arcuately recorded data tracks; Turgay Goker, et al., 360/48, 51, 64 [IMAGE AVAILABLE]

11. 5,673,127, Sep. 30, 1997, Display panel and display device using a display panel; Hiroshi Takahara, et al., 349/140, 42, 59, 62, 84, 138 [IMAGE AVAILABLE]

12. 5,664,032, Sep. 2, 1997, Display panel with electrically-controlled waveguide-routing; William K. Bischel, et al., 385/4, 2, 8, 10, 14, 15, 16, 17, 37, 40, 130, 131, 901 [IMAGE AVAILABLE]

13. 5,663,621, Sep. 2, 1997, Autonomous, low-cost, automatic window covering system for daylighting applications; Pradeep P. Popat, 318/480; 160/5, 166.1, 250/203.4; 318/648 [IMAGE AVAILABLE]

14. 5,647,036, Jul. 8, 1997, Projection display with electrically-controlled waveguide routing; David A. G. Deacon, et al., 385/27, 9 [IMAGE AVAILABLE]

15. 5,626,408, May 6, 1997, Illumination system for a color projection device and circular polarizer suitable for use in such an illumination

system, and color image projection device comprising such an illumination system and circular polarizer; Ingrid E. J. R. Heyndenckx, et al., 353/20; 359/495, 497 [IMAGE AVAILABLE]

16. 5,544,268, Aug. 6, 1996, Display panel with electrically-controlled waveguide-routing; William K. Bischel, et al., 385/4, 16 [IMAGE AVAILABLE]

17. 5,543,811, Aug. 6, 1996, Triangular pyramid phased array antenna; Frank Chethik, 343/844, 853, 893 [IMAGE AVAILABLE]

18. 5,479,297, Dec. 26, 1995, Blind side eliminating mirror assembly; Leland H. Surman, 359/841, 865, 872, 877 [IMAGE AVAILABLE]

19. 5,475,302, Dec. 12, 1995, Inductive pick-up for producing a signal representing the relative positions of two mutually movable bodies; Walter Mehnert, et al., 324/207.17, 207.22 [IMAGE AVAILABLE]

20. 5,471,326, Nov. 28, 1995, Holographic laser scanner and rangefinder; James T. Hall, et al., 359/15, 18, 562 [IMAGE AVAILABLE]

21. 5,465,799, Nov. 14, 1995, System and method for precision downhole tool-face setting and survey measurement correction; Hwa-Shan Ho, 175/61, 45, 74 [IMAGE AVAILABLE]

22. 5,465,142, Nov. 7, 1995, Obstacle avoidance system for helicopters and other aircraft; Rolf Krumes, et al., 356/5.01; 340/946; 356/141.1; 359/201, 211 [IMAGE AVAILABLE]

23. 5,442,448, Aug. 15, 1995, Device for the laterally resolved investigation of a laterally heterogeneous ultrathin object layer; Wolfgang Knoll, 356/445 [IMAGE AVAILABLE]

24. 5,418,651, May 23, 1995, Vehicle display system including light regulating member; Tadashi Iino, et al., 359/857; 353/11 [IMAGE AVAILABLE]

25. 5,334,995, Aug. 2, 1994, Indication display unit for vehicles; Tadashi Iino, 345/7; 340/461, 525, 980 [IMAGE AVAILABLE]

26. 5,331,970, Jul. 26, 1994, EEG spatial enhancement method and system; Alan S. Gevins, et al., 600/544 [IMAGE AVAILABLE]

27. 5,313,326, May 17, 1994, Car **head**-*up** **display** including a Fresnel mirror and a curved mirror; Andrew P. Ramsbottom, 359/631, 633, 727, 730, 834, 851, 857 [IMAGE AVAILABLE]

28. 5,296,868, Mar. 22, 1994, Display apparatus for vehicle; Kazuhiro Itami, et al., 345/7; 353/14; 359/630, 833 [IMAGE AVAILABLE]

29. 5,200,705, Apr. 6, 1993, Dipmeter apparatus and method using transducer array having longitudinally spaced transducers; Brian Clark, et al., 324/338; 73/152.03, 152.54; 175/50; 324/347, 369; 702/9, 10 [IMAGE AVAILABLE]

30. 5,172,100, Dec. 15, 1992, Automotive display apparatus; Tadashi Iino, 345/7; 359/630, 640, 837 [IMAGE AVAILABLE]

31. 5,157,460, Oct. 20, 1992, Method and apparatus for measuring rotary speed using polarized light; Makoto Hino, 356/365; 250/225, 231.13 [IMAGE AVAILABLE]

32. 5,153,775, Oct. 6, 1992, Display apparatus including two prisms with oppositely directed apex angles; Kazuhiro Itami, et al., 359/637, 613, 837 [IMAGE AVAILABLE]

33. 5,128,794, Jul. 7, 1992, Scanning laser helmet mounted sight; Hans W. Mocker, et al., 359/196, 340/980; 356/139.03, 152.1; 359/221, 529 [IMAGE AVAILABLE]

34. 4,978,182, Dec. 18, 1990, Laser protection visor with ellipsoidal geometry; James M. Tedesco, 359/15; 2/432; 351/44; 359/19, 601, 885 [IMAGE AVAILABLE]

35. 4,969,724, Nov. 13, 1990, Helmet supported optical systems with four reflections; Stafford M. Ellis, 359/364, 400, 618 [IMAGE AVAILABLE]

36. 4,915,479, Apr. 10, 1990, Liquid crystal display illumination system; John A. Clarke, 349/62, 64, 70; 362/32 [IMAGE AVAILABLE]

37. 4,893,612, Jan. 16, 1990, Radian energy collector; Robert E. Dawson, 126/689, 683, 698; 359/727 [IMAGE AVAILABLE]

38. 4,832,449, May 23, 1989, Optical projectors for head-up displays; Anthony C. Mundy, et al., 359/630; 345/9; 359/634, 833 [IMAGE AVAILABLE]

39. 4,799,765, Jan. 24, 1989, Integrated head-up and panel display unit; John J. Ferrer, 359/13, 572, 589, 631 [IMAGE AVAILABLE]

40. 4,772,122, Sep. 20, 1988, Alignment technique for laser beam optics; William H. Kasner, 356/139.05; 219/121.78, 121.79, 121.8, 121.81; 356/141.4, 153 [IMAGE AVAILABLE]

41. 4,733,065, Mar. 22, 1988, Optical head device with diffraction grating for separating a light beam incident on an optical recording medium from a light beam reflected therefrom; Hiroaki Hoshi, et al., 250/206.2, 201.5, 203.2; 369/44.14, 112 [IMAGE AVAILABLE]

42. 4,711,580, Dec. 8, 1987, Modeling properties of flake finishes using directional resolution and statistical flake orientation distribution function; William H. Venable, 356/406, 402, 446, 702/180 [IMAGE AVAILABLE]

AVAILABLE]

43. 4,655,540, Apr. 7, 1987, Holographic optical display system with optimum brightness uniformity; Robert B. Wood, et al., 359/13, 15, 630 [IMAGE AVAILABLE]

44. 4,626,070, Dec. 2, 1986, Construction panel; Jean-Jacques Rivier, 359/593, 595 [IMAGE AVAILABLE]

45. 4,611,877, Sep. 16, 1986, Optical projectors for head up displays; Stafford M. Ellis, 345/7, 359/630 [IMAGE AVAILABLE]

46. 4,564,841, Jan. 14, 1986, Navigational systems using phase encoded angular coordinates; Norman S. Neidell, 342/386, 453; 367/13, 150, 151 [IMAGE AVAILABLE]

47. 4,529,990, Jul. 16, 1985, Antenna system for a jamming transmitter; Anton Brunner, 343/761, 779, 853 [IMAGE AVAILABLE]

48. 4,517,960, May 21, 1985, Protection device against solar light; Christian Bartenbach, 126/698; 359/596 [IMAGE AVAILABLE]

49. 4,508,832, Apr. 2, 1985, Ellipsometrically measuring rate of optical change in immunoassay; Timothy J. N. Carter, et al., 436/517, 356/246, 364, 436/527, 805 [IMAGE AVAILABLE]

50. 4,471,763, Sep. 18, 1984, Solar energy concentrator; Zvi Moravnik, 126/666, 687 [IMAGE AVAILABLE]

51. 4,456,783, Jun. 26, 1984, Multielement optical panel; James G. Baker, 136/246; 126/573, 686, 909; 136/239; 359/623 [IMAGE AVAILABLE]

52. 4,447,128, May 8, 1984, Diffraction **head**-*up** **display** solar radiation filter; John J. Ferrer, 349/11; 359/15, 241 [IMAGE AVAILABLE]

53. 4,397,302, Aug. 9, 1983, Non-focusing solar energy concentrator, Zvi Moravnik, 126/687, 907, 909; 359/833, 837 [IMAGE AVAILABLE]

54. 4,385,833, May 31, 1983, Apparatus for reception and radiation of electromagnetic energy in predetermined fields of view; Leland V. Gardner, 359/857; 102/213; 250/353; 356/141.2; 362/297 [IMAGE AVAILABLE]

55. 4,325,633, Apr. 20, 1982, Apparatus for determining of angle of incidence of electromagnetic energy; Leland V. Gardner, 356/141.2, 250/227.28; 356/400 [IMAGE AVAILABLE]

56. 4,309,070, Jan. 5, 1982, Display apparatus; Simon M. St. Leger Seale, 345/7; 359/15, 630 [IMAGE AVAILABLE]

57. 4,283,725, Aug. 11, 1981, In-flight aircraft weather radar calibration; John P. Chisholm, 342/174, 6, 26 [IMAGE AVAILABLE]

58. 4,227,939, Oct. 14, 1980, Luminescent solar energy concentrator devices; Ahmed H. Zewail, et al., 136/247, 259; 250/227.31, 361R, 367, 483.1; 385/900 [IMAGE AVAILABLE]

59. 4,034,374, Jul. 5, 1977, Sequential lobing track-while-scan radar; Bradford E. Kruger, 342/155, 157, 372 [IMAGE AVAILABLE]

60. 4,017,187, Apr. 12, 1977, Double rotation inertial measurement apparatus; Bernard Schwartz, 356/350 [IMAGE AVAILABLE]

61. 3,951,359, Apr. 20, 1976, Missile control system; Charles C. Willhite, 244/3.14 [IMAGE AVAILABLE]

62. 3,848,974, Nov. 19, 1974, **HEAD**-*UP** **DISPLAY** APPARATUS; John Trevor Hosking, et al., 345/7; 353/14; 359/858 [IMAGE AVAILABLE]

63. 3,841,758, Oct. 15, 1974, ROTATION SENSITIVE RETARDER; John George Gievers, 356/350, 351; 359/280 [IMAGE AVAILABLE]

64. 3,833,904, Sep. 3, 1974, AIRBORNE SWITCHED ARRAY RADAR SYSTEM; Richard A. Gebhardt, et al., 342/83, 88, 157, 160, 188, 194, 373 [IMAGE AVAILABLE]

65. 3,829,838, Aug. 13, 1974, COMPUTER-CONTROLLED THREE-DIMENSIONAL PATTERN GENERATOR; Jordan D. Lewis, et al., 345/419; 359/4, 9, 22; 364/223, 223.1, 224.7, 224.8, 234, 237.2, 237.5, 262.4 [IMAGE AVAILABLE]

66. 3,692,385, Sep. 19, 1972, ROTATION SENSITIVE RETARDER SYSTEM; John George Gievers, 359/247, 356/350, 351; 359/317 [IMAGE AVAILABLE]